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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841,187	04/25/2001	Michael L. Nelson	1857.0350000	3650
26111 75	12/15/2005	EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ESPLIN, DAVID B	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 12/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/841,187	NELSON ET AL.
Offic Action Summary	Examin r	Art Unit
	D. Ben Esplin	2851
The MAILING DATE of this communication P riod for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory provided to the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the composition of the provided period for reply will, by the provide	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	<u>19 November 2003</u> .	
2a)⊠ This action is FINAL . 2b)□	This action is non-final.	
3) Since this application is in condition for all closed in accordance with the practice unit	owance except for formal ma der <i>Ex part</i> e Quayle, 1935 C.	tters, prosecution as to the merits is D. 11, 453 O.G. 213.
Disposition of Claims		
4)	hdrawn from consideration. nd 49-61 is/are rejected.	application.
Application Papers		
9)☐ The specification is objected to by the Exa	miner.	
10) The drawing(s) filed on is/are: a)] accepted or b) ☐ objected to	by the Examiner.
Applicant may not request that any objection t		
Replacement drawing sheet(s) including the c		
11) The oath or declaration is objected to by t	he Examiner. Note the attach	ed Office Action or form PTO-152.
Priority under 35 U.S.C. §§ 119 and 120	,	
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for 13) Acknowledgment is made of a claim for do since a specific reference was included in the since as a possible to the since a specific reference was included in the since as a possible to the since a specific reference was included in the first sentence was included in the first sentence was included in the first sentence.	ments have been received. ments have been received in a priority documents have been ureau (PCT Rule 17.2(a)). a list of the certified copies no mestic priority under 35 U.S.C he first sentence of the specif ge provisional application has mestic priority under 35 U.S.C	Application No n received in this National Stage of received. c. § 119(e) (to a provisional application) cation or in an Application Data Sheet. been received. c. §§ 120 and/or 121 since a specific
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Various Disclosure Statement(s) (PTO-1449) Paper N	18) 5) Notice o	s Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)

Application/Control Number: 09/841,187

Art Unit: 2851

DETAILED ACTION

Claim Objections

The previous objections to the claims are withdrawn due to the Amendment filed 11/19/03.

Claim Rejections - 35 USC § 112

The previous rejections of the claims under 35 U.S.C. §112 is withdrawn due to the Amendment filed 11/19/03.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-10, 12-14, 19-28, 30-40, 42-45, and 49-61 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,208,407 to Loopstra.

FIG. 3 of Loopstra schematically shows a focus system for focusing an illumination pattern onto a substrate including a calibration sensor (first height sensor 150), a secondary control sensor (second height sensor 160) producing a first measurement, a primary control sensor (third height sensor 180), and a focus adjustor (Z actuator in substrate holder 111, see col.

Application/Control Number: 09/841,187

Art Unit: 2851

15 lines 56-61). The first measurement corresponds to an output that the secondary control sensor is at the proper focus distance (col. 15 lines 20-26), and the second measurement corresponds to an output of the primary control sensor while the specific region is positioned under the exposing area, and the focus adjuster adjusts the position of the specific region based on a difference between the first and second measurements, until the primary control sensor produces a second measurement identical to the first measurement (col. 15 lines 56-61).

Loopstra further teaches that the calibration sensor may be an air gauge, a capacitance gauge, or an optical gauge (col. 14 lines 29-32), and that an exposing area (projection system 305) may include a lens, as in an optical system, or project an electron beam, or a shadow (col. 23 lines 21-27). Loopstra also teaches that the substrate should be focused by the calibration sensor for each specific region on the substrate (col. 4 lines 12-14), thus teaching that the substrate should be moved according to the exposure pattern.

Response to Arguments

Applicant's arguments filed 11/19/03 have been fully considered but they are not persuasive.

Applicant has argued that Loopstra does not suggest the use of a calibration sensor for determining a focal position. Applicant states that the height sensor 150, applied by Examiner as a calibration sensor, detects a height, or Z-axis position, and not a focal position. A Z-axis position, or position along the optical axis is inherently a focal position, so the detection of height is the detection of a focal position. This is supported by col. 12 lines 42-52 of Loopstra, and paragraph 50 of the instant application. Consequently, this argument is not persuasive.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Ben Esplin whose telephone number is (703) 305-4022. The examiner can normally be reached on Mon.-Fri. (8am-4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell E. Adams can be reached on (703) 308-2847. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DBE DBE

RUSSELL ADAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800